

***The Emerging Role of Technology in
Leading School Transformation
(The Business of Education and
Managing IT)***

**IT Strategic Planning to
Facilitate School
Transformation**

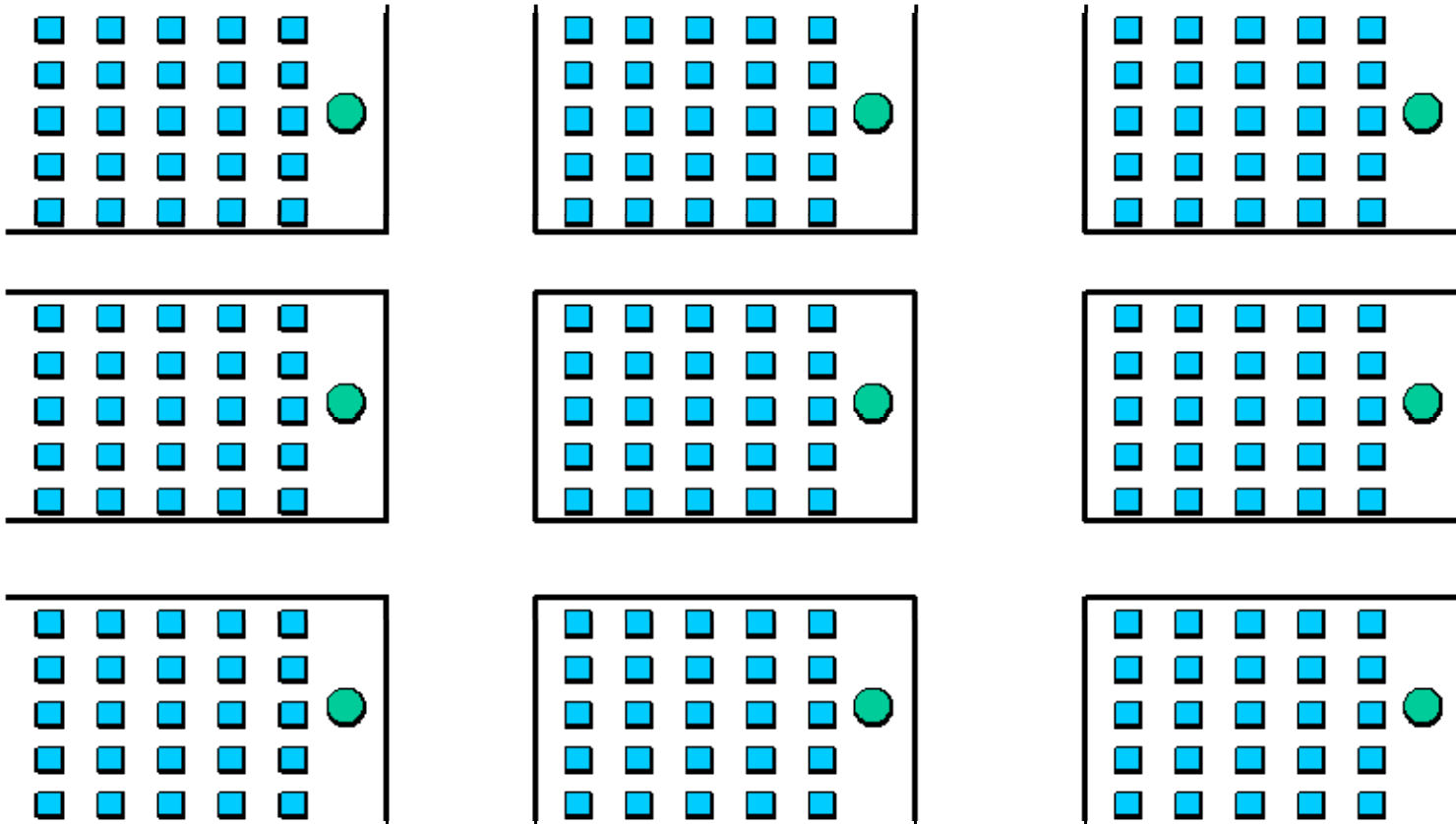


Chancellor's Goals 2009-2010



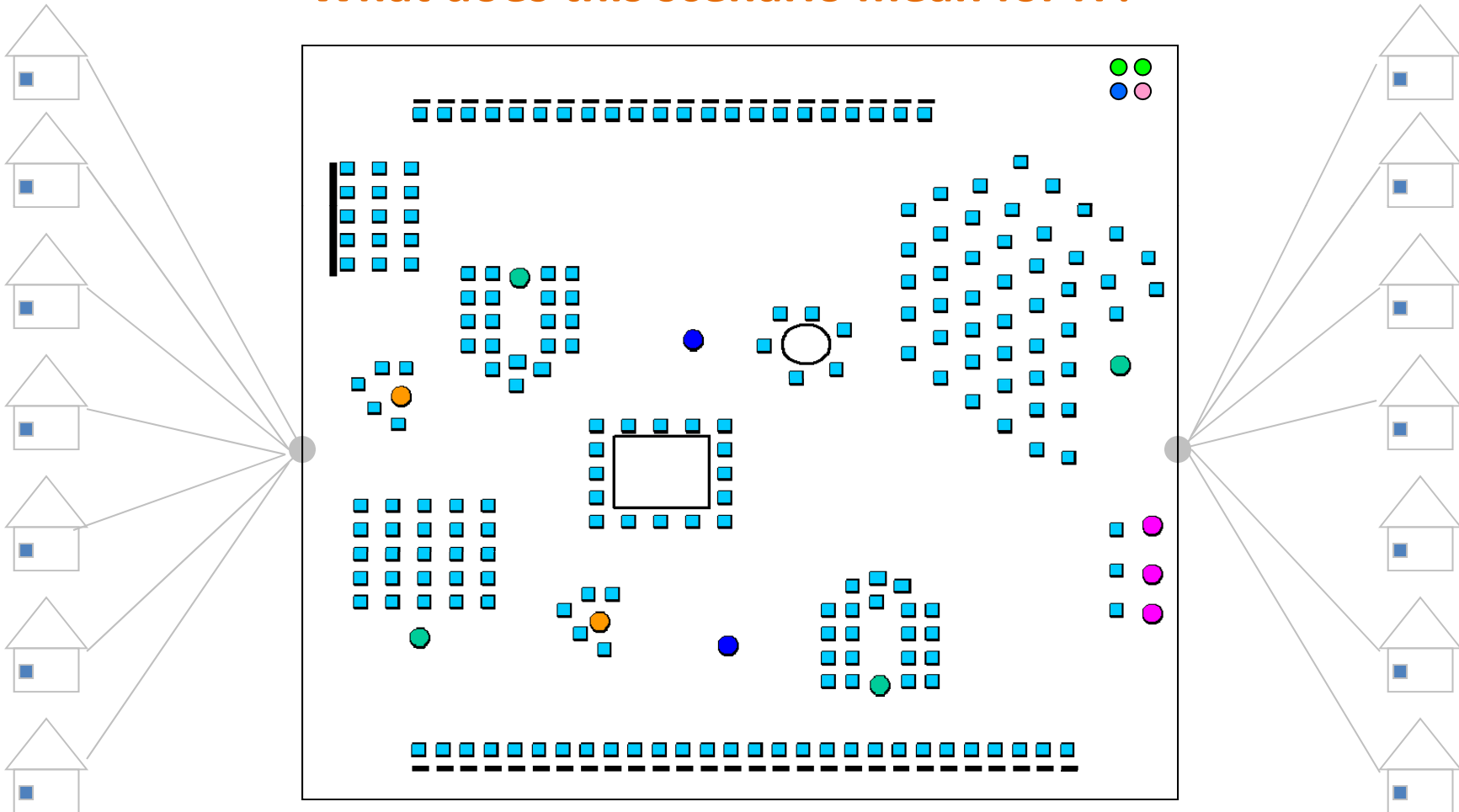
- ☐ Strengthen accountability and achievement tools.
- ☐ Expand and diversify our portfolio of schools and programs.
- ☐ Continue to improve execution and efficiency of planning and support systems to minimize burden on principals and enable them to focus on driving achievement.
- ☐ Launch technology-based innovations to enable individualized learning – for all students as well as adults.

The industrial school model, dominant for more than a century, relies on classroom standardization



By leveraging multiple learning modalities, students can receive instruction differentiated to their particular needs and learning styles.

What does this scenario mean for IT?



Model Schools Development

THE INNOVATION ZONE



- **The Schools**

- The first set of pilot schools grew out of two parallel initiatives in SY 2008-09:
- The Mayor's initiative to launch several new Career and Technical Education demonstration schools that ably prepare students for 21st century careers
- The NYC21C initiative that supported the launch of several new schools with enhanced technology and commitment to personalized learning. These schools include new models as well as the School of One pilot
<http://schools.nyc.gov/community/innovation/SchoolofOne/default.htm> ,
both of which have been supported and enhanced by the next generation vision articulated by Cisco's Education 3.0.
<http://www.cisco.com/web/about/citizenship/socio-economic/globalEd.html>

Model Schools Development

THE INNOVATION ZONE



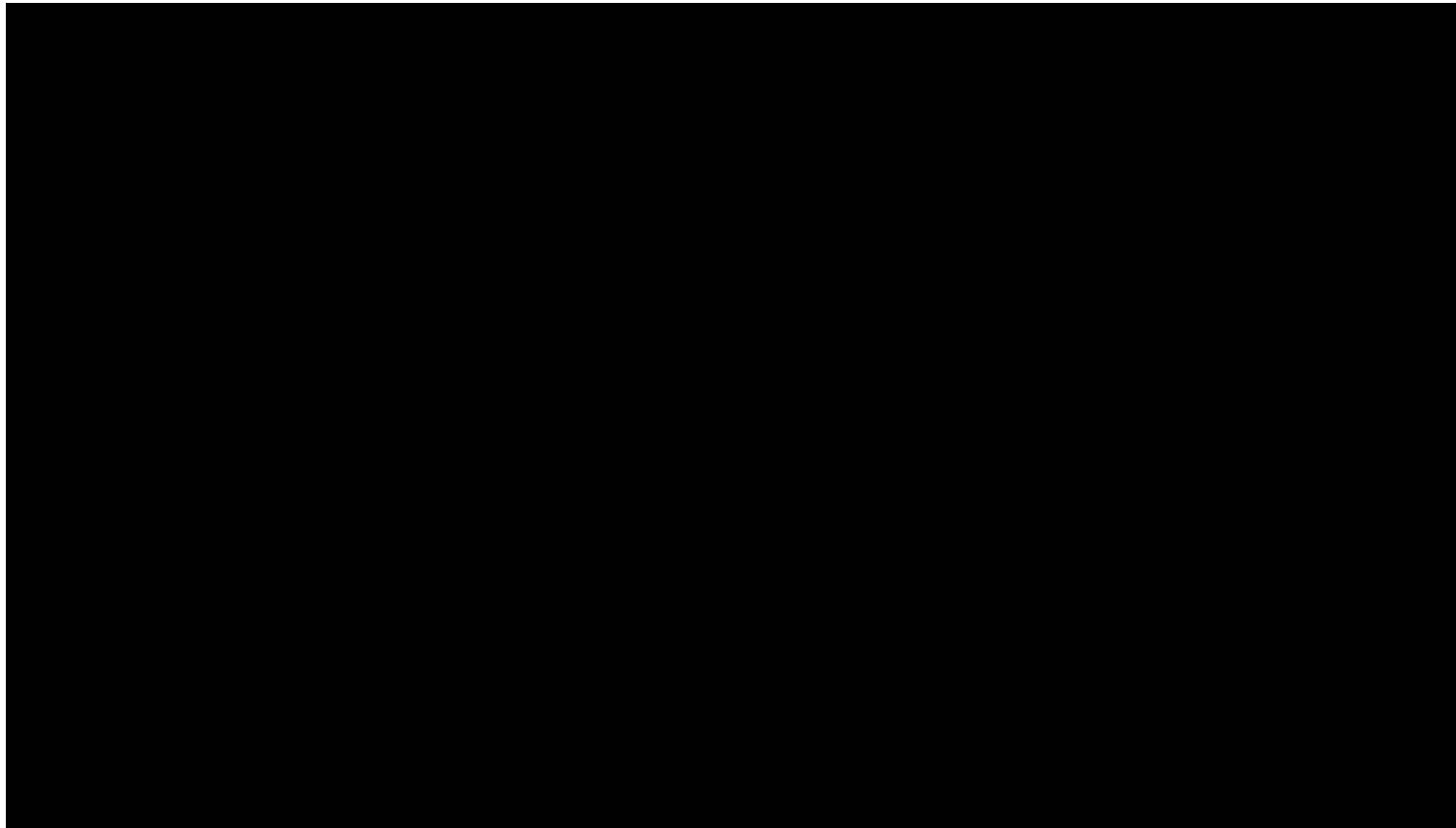
- **Our Vision**

- Transform our schools from a traditional, industrial model to one that reflects and embodies 21st century skills, tools, and experiences, so that our students graduate ready for success in college and in the workforce, regardless of race, language or socioeconomic background.
- Personalize each student's learning experience to meet their diverse and individual needs to the maximum feasible extent.

- **The Approach**

- The Innovation Zone will pilot a set of innovations to evaluate for scaling potential. The core innovations will initially include:
- Expanded student learning time, stretching the school day and the school year without adding teacher work time
- Optimized match between individual student learning needs, learning modalities, content and instructional resources
- Blended distance & online coursework modules and personalized learning management systems into a brick & mortar environment in ways that allow students to differentiate their pace of learning
- Applying gaming theory to standards-based content, creating challenge-based curriculum and an instant feedback and assessment loop
- Creating job embedded teacher teams as a vehicle for teacher organization and adult learning

NYCiSchool



Source: <http://www.youtube.com/watch?v=-c4okPYD8rE>

NYCDOE IT Strategic Plan

- The 5-Year Strategic Technology Plan focuses on four key areas to support transformation:
 - Support for strategic initiatives in Teaching and Learning, Assessment and Accountability, and Special Education.
 - Enterprise eLearning environment for students and staff including the design and implementation of a comprehensive learning and content management platform.
 - A range of technology services allowing for individualization to meet school-specific goals and objectives.
 - Access to NYCDOE network resources from anywhere, anytime, using any device.

NYCDOE IT Strategic Plan

- These areas will increasingly rely on the DOE's ability to enhance and support the following:
 - Mobility,
 - Bandwidth,
 - Multimedia applications and resources,
 - Communication and collaborative applications, and,
 - Services to support all of the above.

NYCDOE IT Strategic Plan

- We expect two unifying features to guide our initiatives:
 - ***Expanding the ability to communicate and collaborate within schools, among schools, and***
 - between schools and external sources of information. The NYCDOE must be able to support the
 - rapidly increasing number of devices (desk tops, laptops, iPods, hand held devices, etc.) that
 - students and staff now use to communicate and collaborate with the rest of the world.
 - ***Enhancing the flexibility of the NYCDOE network and the technology options offered to schools***
 - by providing a robust technology platform while allowing individual principals the flexibility to
 - pick and choose the right technology for their school communities.

Solutions Design & Engineering

- **Components:**

- Instructional & Business Goals and Objectives
- Research & Design
- Enterprise Network
- Funding
- Project Management
- Communication, collaboration and alignment across IT groups, instructional and administrative groups.
- Projects and Implementations

Goals Tracking System

Goals and New Needs 09-10 - Network Technologies

Address: http://collaboration.nycboe.net/sites/FinanceAdmin/DIIT/operations/rs/rp/GoalTrack/Lists/Goals%20and%20New%20Needs%200910/List%20View.aspx

Department Of Education > Finance and Administration > DIIT > Operations > Network Services > DIIT Network Project Office > DIIT Project Management Office Dashboard

Welcome Tsamasios Katherine > My Site > My Links >

DIIT Project Management Office Dashboard

DIIT Project Management Office Dashboard > Goals and New Needs 09-10

Goals and New Needs 09-10

View: All Items

Number	Program	Title	Owner	Supporters	File Location	Funding Phase	SOW Phase	Project Plan Phase	Move to Protrack?	Startup Costs	Ongoing Costs
NH-OH-1	New Need	Security User Administration	Hamani	NA	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		
P-2-A	Project	Adult LMS	Hamani	TK, DM	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		
P-2-D-H	Project	Succession Plan	Hamani	NA	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		\$0.00
P-3-A	Project	Parent ID Management System	Hamani	DM, AM	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		\$0.00
P-6-B	Project	Develop Role Management System	Hamani	AM, MK	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$0.00	\$9,000,000.00
P-7-A	Project	Security Education and Adoption	Hamani	BTMs	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$0.00	\$1,400,000.00
P-8-B	Project	Student ID Management System	Hamani	TK, AM	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$0.00	\$2,800,000.00
P-8-C	Project	Single Signon	Hamani	TK, AM	Hamani Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		\$0.00
NH-TK-1	New Need	Equipment Refresh	Kambouras	NA	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$2,500,000.00	\$110,000.00
NH-TK-2	New Need	Data Center Battery Room	Kambouras	NA	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$2,500,000.00	
NH TK 3	Now Nood	Cloud Funding	Kambouras	NA	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$3,600,000.00	
NH-TK-4	New Need	Storage Consolidation	Kambouras	NA	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$800,000.00	\$280,000.00
P-2-B	Project	PC Life Cycle Management	Kambouras	KT, DM, OH	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$30,812,000.00	
P-2-C	Project	Virtual Desktop Interface	Kambouras	KT, DM, OH	Kambouras Repository	RESEARCHING	NOT STARTED	NOT STARTED	NOT READY	\$14,000,000.00	\$1,000,000.00
P-2-D-K	Project	Succession Plan	Kambouras	NA	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		\$0.00
P-6-A	Project	NOC Enhancement	Kambouras	OH, DM	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$826,000.00	\$125,000.00
P-6-C	Project	Redesign Network	Kambouras	OH	Kambouras Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$83,000,000.00	
P-8-A	Project	MDF Redesign and Governance	Kambouras	MS, DSF, SCA, DM	Kambouras Repository	RESEARCHING	NOT STARTED	NOT STARTED	NOT READY	\$46,000,000.00	
NH-DM-1	New Need	MAGIC Replacement	Moy	NA	Moy Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$4,500,000.00	\$500,000.00
NH-DM-2	New Need	E-Mail Archive Solution	Moy	NA	Moy Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$5,500,000.00	\$2,020,000.00
NH-DM-3	New Need	Server and Storage Consolidation	Moy	NA	Moy Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$1,200,000.00	\$720,000.00
P-1-A	Project	Bring ARIS Inhouse	Moy	TK, OH, MS	Moy Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$13,500,000.00	\$660,000.00
P-2-D-M	Project	Succession Plan	Moy	NA	Moy Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		\$0.00
NH-MS-1	New Need	Procure DBMS to Track Voice and Data Lines	Spencer	NA	Spencer Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$55,000.00	\$0.00
NH-MS-2	New Need	Engage a Telecom Billing Analyst	Spencer	NA	Spencer Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$0.00	\$90,000.00
P-2-D-S	Project	Succession Plan	Spencer	NA	Spencer Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		\$0.00
P-3-B	Project	Contact Center Consolidation and Realignment	Spencer	OH, DM	Spencer Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY	\$1,000,000.00	\$2,100,000.00
P-6-D	Project	Next Generation IP Telephony	Spencer	NA	Spencer Repository	NOT STARTED	NOT STARTED	NOT STARTED	NOT READY		\$0.00
P-6-E	Project	Security Dashboard	Hamani	TK	Hamani Repository	SUBMITTED	DOCUMENTING	DOCUMENTING	READY		\$0.00